

Motor vehicle rear axle and method of producing same

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Inventor: BUNGARTEN DIETER DIPL ING (DE); EBERT JOERG DR ING (DE); ELSNER OLAF DIPL ING (DE); HELLENKAMP MICHAEL DIPL ING (DE); LINDEN HERBERT DIPL ING (DE); SOELLNER GERHARDT DIPL ING (DE); STEIMMEL FRANZ DIPL ING (DE); ZENGEN KARL-HEINZ VON DIPL ING (DE); HASENPATT WALTHER DIPL ING (DE); HARBIG PETER DIPL ING (DE); JENTSCH KAI-UWE DIPL ING (DE); LOEWEN JOACHIM DR (DE)

Applicant: VAW VER ALUMINIUM WERKE AG (DE); THYSSEN UMFORMTECH GMBH (DE)

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The invention relates to an integral motor vehicle rear axle of the twist-beam axle type, which comprises an opposed pair of longitudinal control arms (2) of a high flexural strength and torsional stiffness for carrying a wheel carrier for a wheel, and a transverse strut (3) which is resistant to bending but resilient relative to torsional stress and which comprises a profiled cross-section changing the position of the shear center. The transverse strut (3) consists of an extruded aluminum profile with an extrusion structure extending in the longitudinal direction of the transverse strut. A method of producing a motor vehicle rear axle of the twist-beam axle type using transverse struts and longitudinal control arms consists in joining the longitudinal control arms (2) with a transverse carrier (3) which, at its end, comprises a bore, opening or bonding surface extending transversely to the longitudinal axis, and in connecting said longitudinal control arms by hydro-forming in a form-fitting and force-locking way.

